MEMORANDUM

TO: RON ROBINSON

DATE: January 28, 1972

FROM: RON PINE

SUBJECT: E.I. DuPont and Sequallitchew Creek

The above study was conducted on December 28, 1971. The objective of the study was to determine the effect of the DuFont operation upon the water quality of Sequallitchew Creek.

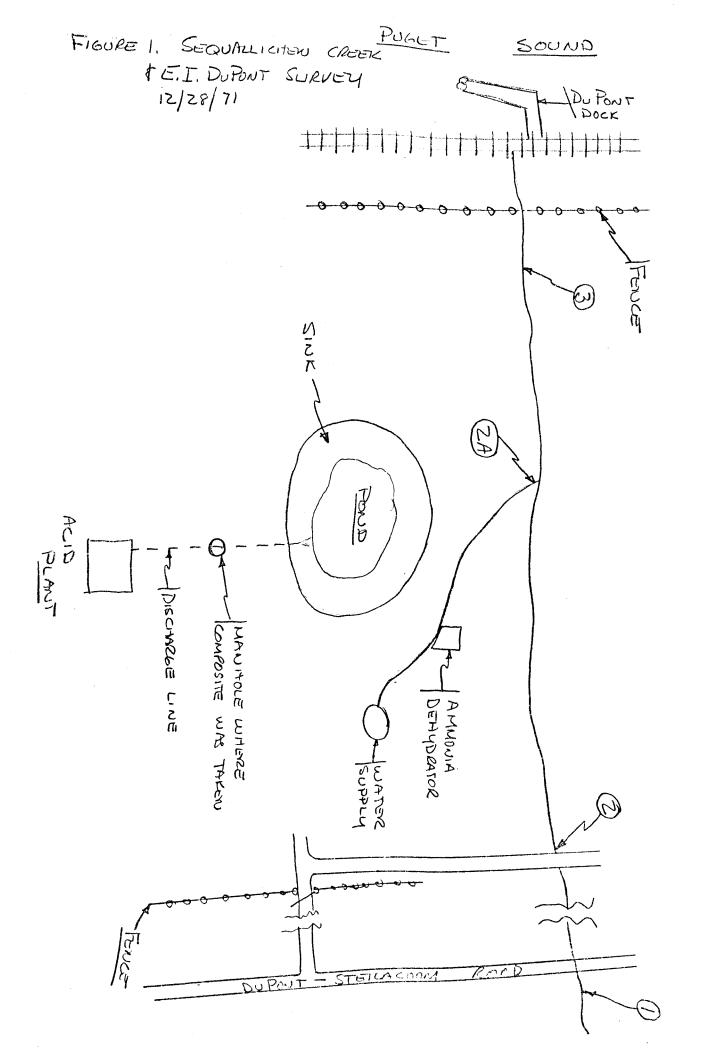
Samples were collected from Sequallitchew Creek at the stations shown on Figure 1 and the results are presented in Table 1. A 24-hour composite sample was collected from the acid plant effluent as shown in Figure 1. The acid plant discharges into a sink from which there is no surface outlet. The discharge into Sequallitchew Greek is from the plant water supply overflow and seepage from the ammonia dehydrator.

The analytical results of the composite sample from the acid plant is as follows:

рH	6.8
Chloride	218 mg/1
Alkalinity as CaCO3	34 mg/l
BODS	N11
COD	7.0
Total Coliform	1,750 colonies/100 mls
T.S.	589 mg/l
T.N.V.S.	449 mg/l
T.S.S.	2 mg/l
T.S.N.V.S.	1 mg/l
T.S.V.S.	1 mg/1
T-PO4	0.69 mg/1
Organic KjelN	0.02 mg/l
NO2-N	0.05 mg/l
NO3-N	4.88 mg/l
NH3-N	0.00 mg/l

Discussion

The water entering Sequallitchew Creek from the ammonia dehydrator (Station 2A) is high in nitrate-nitrogen, ammonia and total solids; however, its effect upon the creek at Station 3 is barely discernible. A biological evaluation of the creek showed a substantial number and variety of aquatic invertebrates both above and below the discharge. This further indicates that there is little or no effect from the discharge since these organisms are continually subjected to its influence.



MEMORANDUM

Department of Ecology P. O. Box 829 OLYMPIA. WASHINGTON 98501

	Check
Information For Action	
Permit	
Other	

TO: Mike & Files & Pete Hildebrandt

DATE: October 6, 1971

FROM: Ron Robinson

SUBJECT: E. I. Du Pont - Pierce County - Sampling

We would like to have sampling done at E. I. Du Pont de Nemours & Co. at Du Pont, Washingotn.

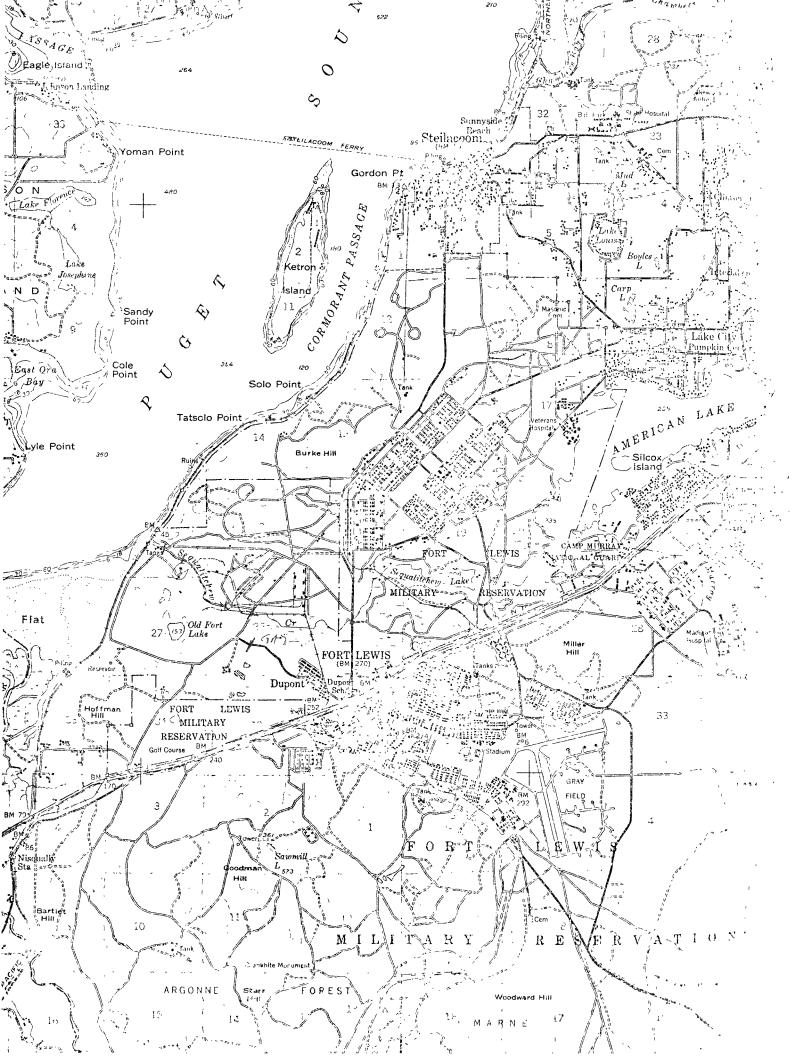
Samples of the effluent and the receiving water above and below the discharge point will be necessary. The receiving water is Sequallitchew Creek which begins at Lake Sequallitchew and it would be good to sample the lake also. Analysis for Temperature, pH, bacterial count, ammonia, nitrate, phosphorus, alkalinity, COD, TDS, and volatile solids at each location.

Contact H. D. Means, Mgr. or Stanley E. Bye, Tech. Engineer at (206) JU 4-1616 for setting up a visit. You must have prior appointment to get through the gate. They will be expecting a call from you. The above information is needed for writing a permit.

Please contact me or Mike Price if additional information is needed. No boat is needed but possibly boots for wading the creek.

Lake Sequallitchew is on Fort Lewis property and is west of the south end of American Lake. Contact with Fort Lewis to sample it may be necessary.

RSR:dlb 10-13-71 A.C. "TONY" URSIC -TUES, 28 TH JACK MINOR



REQUEST FOR ANALYSIS

ρ	Date/2/20/7/
REQUESTED BY ROW PINE	RECEIVING WATER SEQUALLITATION
COLLECTED BY ROW PINE & NORM THOURS	PROCESS WATER
DATE WERE (WILL BE) COLLECTED /2/28/7/	OTHER
PRIORITY: REASONABLY SOONAS SOON AS POS	SSIBLE X EMERGENCY
SAMPLES WILL ARRIVE: DATE 12/28/71 APPROXIM	ATE TIME 4 PM CARRIER CAC
ROUTE DATA SUMMARY TO: ROW PINE	
ADDITIONAL INFORMATION (PROBLEM, BACKGROUND,	INTERFERENCES, PATTERNS, ETC.)
INFORMATION IS NEED FOR A NEW	PEVEMIT.

For Lab Use Only

Type of Analyses Required	Number of Samples	Approx. Range	Preservative Type - Vol.	Laboratory Number	Analyst	Date	Notes
BODS	6		Iceo				
COD	6						
CALDRIDE	6						
ALVALINITY	6						1
TOTAL COLIFORY	6		7				. :
NHN	6		MERCURIC				
NH3-N NO3-N NO2-N K-N	_6						:
NON	6						
K-N	6						
T-104	6	Professional Control of the Control	D				
TS	6		Iceo				
TNVS	6						
TSS	6	,					
TSN1S TSVS	6						
TSVS			4				
	TOTAL	***************************************				I	

Fill out as completely as possible. Some Analyses (bacteriological, biological, BOD, etc.) and large numbers of samples should be scheduled ahead of time. Specific questions should be directed to the Analyst supervising the particular analysis desired. Lab. phone: 206-753-2362.

OFFICE OF TECHNICAL SERVICES

Original to LABORAT
Copies to:

Pine

Merley McCall

The following are the analytical results from survey conducted at:

Dupont 03-02.23 12/21/71 - Collected _ ppm as C. (0) ppm ppm STATION Total . chlorides Coliform Alkalinity BOD COP PHQ LAB. NO. NO. 2. 7. 6.8 34. 1,750. 218. 71-4108 ppm ppm ppm APM TNUS. T, S, N. V.S. T.S.V.S. T.5. T.S.S. 449. 581. 2. 1. 71-4108 Kjeldahl-N 4.88 02 .00 71-4108

Notes:

Summarized by 15 dec

OF WASHINGTON STATE

DEPARTMENT OF ECOLOGY

OFFICE OF TECHNICAL SERVICES

ANALYTICAL REPORT SHEET

Sequallitakew Creek

The following are the analytical results from survey conducted at:

Routing

Original to LAPONAT Copies to:

- Merley McCall

03-02.21

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02	3	7.2	4.	37.	375.	0.	3.	.55
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	T.S.	T.N.V.S.	T.S.S.	T.S. D. VS.	rjeldahl-N	Filtered.	Filtered.	
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